Under the Paperwork Reduction Act of 1995, no persons are required to re UTILITY PATENT APPLICATION

TRANSMITTAL (only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 1875.0950001						
First Inventor	Christopher M. Ward					
Title	Applications for Differential Crystal Oscillator (as amended)					
Frances Mail Lahel No						

		ICATION ELEMENTS 0 concerning utility patent application	contents.	AD	DRI	ESS TO): Co	fail Stop Patent ommissioner fo O. Box 1450 lexandria VA 2	or Patents		
1. [2	1 00 manomitta	l Form (e.g., PTO/SB/17) l, and a duplicate for fee processing)		7. [(A,	ppendix)		•	e, large table or C	•	Program
2.	Applicant claim	ns small entity status.		O. 1		applicable			active Submissio	" P~	
	See 37 CFR 1.2			8	a. 🔲			ole Form (CRI	F)	3. P	
3. 🛭			32 j	b. Specification Sequence Listing on:							304
	 Descriptive title of 	(preferred arrangement set forth below) - Descriptive title of the Invention			i. CD-ROM or CD-R (2 copies); or						
	- Statement Regardi	o Related Applications ing Fed sponsored R & D			. —	ii.	paper			196 196	
	 Reference to sequence or a computer progression. Background of the 	gram listing appendix		(c. 🔲				f above copies	-	
	- Brief Summary of					ACC	OMPAN	NYING AP	PLICATION PA	ARTS	
	- Detailed Description - Claim(s) - Abstract of the Dis	ion		9.	×	Assignm	nent Paper	s (cover sheet	t & document(s))		
4. 🗵	Drawing(s) (35	U.S.C. 113) [Total Sheets 5	0 1	10.		37 CFR (when the	3.73(b) Si ere is an ass	tatement signee)	Power of Atte	orney	
	Oath or Declaration	[Total Pages 2	1	11.		English '	Translatio	on Document	(if applicable)		
a. Newly executed (original or copy)				12.			tion Disclo		Copies of ID	S	
	b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)				\boxtimes						
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR				14. Two (2) Return Receipt Postcards (MPEP 503) (Should be specifically itemized)							
1.63(d)(2) and 1.33(b).			15. Certified Copy of Priority Document(s) (if foreign priority is claimed)								
6. Application Data Sheet. See 37 CFR 1.76.				16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attacform PTO/SB/35 or its equivalent.						must attach	
				17.	×	Other:		•	37 C.F.R. § 1.136('a)(3)	
					×	Other:			gnee is: Broadcom		on
18	If a CONTINUING	APPLICATION, check approp	riate box, and sun	plv th							
		heet under 37 CFR 1.76:	э - эм, ими вир	r-y •1		yor			,		
	☐ Continuation ☐ Divisional ☐ Continuation-in-Part (CIP) of prior application No: 09/438,689 Prior application information: Examiner Mis, D. Art Unit: 2817										
consi	For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.										
	19. CORRESPONDENCE ADDRESS										
×	Customer Number 26	5111					or	Correspon	ndence address belo	ъ	
NAME STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.											
Attorneys at Law ADDRESS											
CIT			TATE	Τ				ZIP CODE	Т		-
	UNTRY		ELEPHONE	\vdash				FAX	 		
NAN	ME (Print/Type)	Γimothy A. Doyle			Re	gistration l	No. (Attori	ney/Agent)	51,262		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Ninter a. Loyle

SIGNATURE

Date

23 FEB C4

FEE TRANSMITTAL for FY 2004

ffective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 1,154.00

s are required to respond to a c	ollection of information unless it displays a valid OMB control number					
Complete if Known						
Application Number	To Be Assigned					
Filing Date	February 23, 2004					
First Named Inventor	Ward et al.					
Examiner Name	To Be Assigned					
Art Unit	To Be Assigned					
Attorney Docket No.	1875.0950001					

		Attorney	230110		1875.09500	JUI	
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)						
☐ Check ☐ Credit card ☐ Money Order ☐ Other** ☐ None ** Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.	ADDITIONAL FEES Large Entity Small Entity						
Deposit Account		Fee Fee (\$) Co)	Fee Description		Fee Paid
Deposit Account Number 19-0036	1051	130	2051	65	Surcharge - late filing f	ee or oath	
Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.	1502	50	2052	25	Surcharge-late provision		
The Commissioner is authorized to: (check all that apply)			-002		sheet	mar ming ice of cover	
☐ Charge fee(s) indicated below ☐ Credit any over payments	1053	130	1053	130	Non-English specificati		
☐ Charge any additional fee(s) during the pendency of this application	1812	2,520	1	2,520	For filing a request for	ex parte reexamination	
☐ Charge fee(s) indicated below, except for the filing fee to the	1804	920*	1804	920*	Requesting publication action	of SIR prior to Examine	1
above-identified deposit account.	1805	1,840*	1805	1,840	Requesting publication action	of SIR after Examiner	
	1251	110	2251	55	Extension for reply with		
	1252	420	2252	210	Extension for reply with		
FEE CALCULATION	1253	950	2253	475	Extension for reply with		
1. BASIC FILING FEE	1254	1,480	2254	740	Extension for reply with	nin fourth month	
Large Entity Small Entity	1255	2,010	2255	1,005	Extension for reply with	nin fifth month	
Fee Fee Fee Fee Fee Description Fee Paid Code (\$)	1401	330	2401	165	Notice of Appeal		
1001 770 2001 385 Utility filing fee 770.00	1402	330	2402	165	Filing a brief in support	of an appeal	
1002 340 2002 170 Design filing fee	1403	290	2403	145	Request for oral hearing		
1003 530 2003 265 Plant filing fee	1451	1,510	1451	1,510	Petition to institute a pr	ublic use proceeding	
1004 770 2004 385 Reissue filing fee	1452	110	2452	55	Petition to revive - una	voidable	
1105 160 2005 80 Provisional filing fee	1453	1,330	2453	665	Petition to revive - unir	ntentional	
SUBTOTAL (1) (\$) 770.00	1501	1,330	2501	665	Utility issue fee (or reis	sue)	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1502	480	2502	240	Design issue fee		
Fee from Extra below Fee Pald	1503	640	2503	320	Plant issue fee		
Total Claims 8 - 20** = 0 X 18.00 = 0	1460	130	1460	130	Petitions to the Commi	ssioner	
Indep. Claims 7 - 3** = 4 X 86.00 = 344.00	1807	50	1807	50	Processing fee under 3	87 CED 1 17(a)	
Multiple Dependent <u>290.00</u> = <u>0</u>	1007	30	1007	30	Processing fee under s	37 CFK 1.17(q)	
Large Entity _I Small Entity	1806	180	1806	180	Submission of Informati	tion Disclosure Stmt	
Fee Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)	8021	40	8021	40	Recording each patent property (times numbe	assignment per	40.00
1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	Filing a submission after	er final rejection (37 CFF	<u></u>
1201 86 2201 43 Independent claims in excess of 3	1810	770	2810	385	1.129(a))	ontion to be examined	
1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 **Reissue independent claims	1010	,,,	2010	303	For each additional inv (37 CFR 1.129(b))	ention to be examined	
over original patent	1801	770	2801	385	Request for Continued	Examination (RCE)	
1205 18 2205 9 **Reissue claims in excess of 20	1802	900	1802	900	Request for expedited	examination of a design	
and over original patent	1802 900 1802 900 Request for expedited examination of a design application Other fee (specify)						
SUBTOTAL (2) (\$) <u>344.00</u>							
**or number previously paid, if greater; For Reissue, see above	* Red	uced by	Basic	Filing F	ee Paid	SUBTOTAL (3) (\$) <u>4</u>	0.00
SUBMITTED BY						Complete (if applicable)	
Name (Print/Type) Timothy A. Doyle		Registration No. (Attorney/Agent)			51,262	Telephone 202-37	1-2600
Signature Limbly a. Gorle						Date 23Fet	504 .
WARNING: Information on this form ma	y becom	e pubilc.	Credit o	ard info	rmation should not		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



In re application of:

Ward et al.

Appl. No. To Be Assigned (Divisional of Appl. No. 09/438,689)

Filed: February 23, 2004

For:

Applications for Differential

Crystal Oscillator (as amended)

Confirmation No. To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1875.095000I

Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Timothy A. Doyle

Attorney for Applicants Registration No. 51,262

Date: 23 FEB 04

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600



Robert Greene Sterne Edward J. Kessler Jorge A. Goldstein David K.S. Cornwell Robert W. Esmond Robert W. Esmond Tracy-Gene G. Durkin Michele A. Cimbala Michael B. Ray Robert E. Sokohl Eric K. Steffe Eric K. Sterre Michael O, Lee Steven R. Ludwig John M. Covert Linda E. Alcorn Robert C. Millonig Lawrence B. Bugaisky Donald J. Featherstone Michael V. Messinger Michael V. Messinger

Judith U. Kim Timothy J. Shea, Jr. Patrick E. Garrett Heidi L. Kraus Edward W. Yee Albert L. Ferro* Donald R. Banowit Peter A. Jackman Molly A. McCall Teresa U. Medler Jeffrey S. Weaver Kendrick P. Patterson Vincent L. Capuano Eldora Ellison Floyd Thomas C. Fiala Thomas C. Fiala Brian J. Del Buono Virgil Lee Beaston Kimberly N. Reddick

Theodore A. Wood Elizabeth J. Haanes Bruce E. Chalker Joseph S. Ostroff Frank R. Cottingham Christine M. Lhulier Rae Lynn Prengaman Jane Shershenovich* Lawrence J. Carroll* George S. Bardmesser Daniel A. Klein* Jason D. Eisenberg Michael D. Specht Andrea J. Kamage Tracy L. Muller* Jon E. Wright* LuAnne M. Yuricek* John J. Eiguerga John J. Figueroa

Ann E. Summerfield Tiera S. Coston* Aric W. Ledford*

Registered Patent Agents -Karen R. Markowicz Nancy J. Leith Helene C. Carlson Gaby L. Longsworth Matthew J. Dowd Aaron L. Schwartz Mary B. Tung Katrina Y. Pei Quach Bryan L. Skelton Robert A. Schwartzman Timothy A. Doyle Jennifer R. Mahalingappa Teresa A. Colella Jeffrey S. Lundgren Victoria S. Rutherford Eric D. Hayes

<u>Of Counsel</u> Kenneth C. Bass III Evan R. Smith

*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

February 23, 2004

WRITER'S DIRECT NUMBER: (202) 772-8774 INTERNET ADDRESS: TDOYLE@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Mail Stop Patent Application

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

(Divisional of Appl No. 09/438,689; Filed: November 12, 1999)

Appl. No. To Be Assigned; Filed: February 23, 2004

Applications for Differential Crystal Oscillator (as amended) For:

Inventors:

Ward et al.

Our Ref:

1875.095000I/JTH/TAD

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- PTO Utility Patent Application Transmittal (Form PTO/SB/05); 2.
- 3. U.S. Utility Patent Application entitled:

Applications for Differential Crystal Oscillator (as amended)

and naming as inventors:

Christopher M. Ward Pieter Vorenkamp

the application consisting of:

Sterne, Kessler, Goldstein & Fox P.L.C.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. A copy of the executed Declaration and Power of Attorney for Patent Applications, as originally filed in U.S. Appl. No. 09/438,689;
- c. A specification containing:
 - i. 119 pages of description prior to the claims;
 - ii. <u>12</u> pages of claims (<u>41</u> claims);
 - iii. a one (1) page abstract; and
- d. <u>50</u> sheets of drawings: (Figures <u>1-23, 24A-24C, 25-43, 44A-44B,</u> and 45-58);
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 5. Recordation Form Cover Sheet;
- 6. A copy of the executed Assignment to Broadcom Corporation, as filed in U.S. Appl. No. 09/438,689, recordation of which is hereby respectfully requested;
- 7. A Preliminary Amendment Under 37 C.F.R. § 1.115;
- 8. Letter to the Draftsman: Submission of Formal Drawings;
- 9. <u>50</u> sheets of formal drawings, approval of which is respectfully requested;
- 10. Two (2) return postcards; and
- 11. Form PTO-2038 Credit Card Payment Form for \$1,154.00 to cover:
 - \$ 770.00 Filing fee for patent application;
 - \$ 40.00 Assignment recordation fee; and
 - \$ 344.00 Fee for excess claims.

Commissioner for Patents February 23, 2004 Page 3

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademar

3k Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Timothy A. Doyle

Attorney for Applicants Registration No. 51,262

TAD/JTH:slw Enclosures

::ODMA\MHODMA\SKGF_DC1;215249;1 SKGF Rev. 2/12/02 dcw; 9/5/02 mac; 4/29/03 svb

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Ward et al.

Appl. No. *To Be Assigned* (Divisional of Appl. No. 09/438,689)

Filed: February 23, 2004

For: Applications for Differential

Crystal Oscillator (as amended)

Confirmation No. To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1875.095000I

Letter to PTO Draftsman: Submission of Formal Drawings

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith are fifty (50) sheets of formal drawings with Figures 1-23, 24A-24C, 25-43, 44A-44B, and 45-58, corresponding to the informal drawings submitted with the above-captioned application. Identification of the drawings is provided in accordance with 37 C.F.R. § 1.84(c). Acknowledgment of the receipt, approval, and entry of these formal drawings into this application is respectfully requested.

It is not believed that an extension of time is required, other than any already provided herewith. However, if an extension of time is needed to prevent abandonment of the application, then such extension of time is hereby petitioned. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Timothy/A. Doyle

Attorney for Applicants Registration No. 51,262

Date: 23 Feb uy

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

SKGF_DC1:233123.1